Safety Data Sheet

Version 5.1 SDS Number 300000008630
Revision Date 01/08/2017 Print Date 01/21/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	HYBRIDUR ® 870 Polymer Dispersion
Product Use Description	:	Adhesives, Binders, and Coatings
Manufacturer/Importer/Distributor	:	Evonik Corporation - Division PMD 299 Jefferson Road Parsippany, NJ 07054 www.evonik.com
Telephone	:	973-929-8060 Corporate 1-800-345-3148 Chemicals Cust Serv 1-800-752-1597 Gases/Electronics Cust Serv
Emergency telephone number (24h)	:	800-523-9374 USA +1 610 481 7711 International

2. HAZARDS IDENTIFICATION

GHS classification

Skin irritation - Category 2
Eye irritation - Category 2A

GHS label elements

Hazard pictograms/symbols

Signal Word: Warning

Hazard Statements:

H315:Causes skin irritation.
H319:Causes serious eye irritation.

Precautionary Statements:

Prevention : P264:Wash hands thoroughly after handling.
P280:Wear eye protection/face protection.
P280e:Wear protective gloves.

Response : P302+P352 :IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 :If skin irritation occurs: Get medical advice/attention.
P337+P313 :If eye irritation persists: Get medical advice/attention.
P362 :Take off contaminated clothing and wash before re use.

Hazards not otherwise classified

Moderate respiratory irritant.
Moderate skin irritant.
Mild eye irritant.

40.059 % of mixture consists of ingredients of unknown acute toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Water	7732-18-5	> 50%
Triethylamine	121-44-8	< 1.2 %

CHEMICAL FAMILY: Urethane Hybrid Polymer. The remaining components are trade secret.

4. FIRST AID MEASURES

General advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Skin contact : Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

Ingestion : Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation : If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

Most important : Repeated and/or prolonged exposure to low concentrations of vapors and/or

symptoms/effects - acute and delayed	aerosols may cause: Sore throat.Asthma. Skin disorders and Allergies.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Dry sand. Limestone powder.
Specific hazards	:	May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from firefighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. No special precautions required. Burning produces noxious and toxic fumes.
Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	:	Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
Environmental precautions	:	Construct a dike to prevent spreading.
Methods for cleaning up	:	Prepare a decontamination solution of 0.2-5% liquid detergent and 3-8% concentrated ammonium hydroxide in water. Treat spill area with decontamination solution, using about 10 parts of the solution for each part of the spill and allow it to react for at least 10 minutes for trace amounts and 48 hours for large spills. Neutralize the waste. Carbon dioxide will evolve, leaving insoluble polyureas. Call Emergency Response number for advice. Place in appropriate chemical waste container.
Additional advice	:	If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well-ventilated areas. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical measures/Precautions

Do not store in reactive metal containers.

Keep from freezing

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

Respiratory protection	:	Wear appropriate respirator when ventilation is inadequate.
Hand protection	:	Nitrile rubber. Impervious gloves. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	:	Chemical safety glasses.
Skin and body protection	:	Long sleeve shirts and trousers without cuffs.
Special instructions for protection and hygiene	:	Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

Exposure limit(s)

Triethylamine	Time Weighted Average (TWA): ACGIH	0.5 ppm	-
Triethylamine	Short Term Exposure Limit (STEL): ACGIH	1 ppm	-
Triethylamine	Permissible exposure limit: OSHA Z1	25 ppm	100 mg/m3
Triethylamine	Time Weighted Average (TWA): OSHA Z1A	10 ppm	40 mg/m3
Triethylamine	Short Term Exposure Limit (STEL): OSHA Z1A	15 ppm	60 mg/m3
Triethylamine	Ceiling Limit Value: US CA OEL	1 ppm	4.1 mg/m3
Triethylamine	Time Weighted Average (TWA): TN OEL	10 ppm	40 mg/m3
Triethylamine	Short Term Exposure Limit (STEL): TN OEL	15 ppm	60 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid. White.
Odor	:	No data available.

Odor threshold	:	No data available.
pH	:	No data available.
Melting point/range	:	No data available.
Boiling point/range	:	205 °F (96 °C)
Flash point	:	> 230 °F (> 110 °C)
Evaporation rate	:	No data available.
Flammability (solid, gas)	:	Not applicable.
Upper/lower explosion/flammability limit	:	Not applicable.
Vapor pressure	:	20.10 mmHg at 70 °F (21 °C)
Water solubility	:	Completely soluble.
Relative vapor density	:	Not applicable.
Relative density	:	1.05 (water = 1)
Partition coefficient (n-octanol/water)	:	No data available.
Auto-ignition temperature	:	No data available.
Decomposition temperature	:	No data available.
Viscosity	:	No data available.
Molecular Weight	:	No data available.
Density	:	65.549 lb/ft3 (1.05 g/cm3) at 70 °F (21 °C)

10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable under normal conditions.
Conditions to avoid	:	No data available.
Materials to avoid	:	Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Incompatible with bases.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
Oxidizing agents.

Hazardous decomposition products : Nitric acid.
Ammonia
Nitrogen oxides (NOx).
Nitrogen oxide can react with water vapors to form corrosive nitric acid.
Carbon monoxide.
Carbon dioxide (CO2).

Possibility of hazardous Reactions/Reactivity : No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye : Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere. Contact with eyes may cause irritation.

Effects on Skin : Causes skin irritation.

Inhalation Effects : Harmful if inhaled and may cause delayed lung injury. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion Effects : No data available.

Symptoms : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Asthma., Skin disorders and Allergies.

Acute toxicity

Acute Oral Toxicity : No data is available on the product itself.

Acute Oral Toxicity - Components

Triethylamine	LD50 : 460 mg/kg	Species : Rat.

Inhalation : No data is available on the product itself.

Inhalation - Components

Triethylamine	LC50 (1 h) : 15.7632 mg/l	Species : Rat.

Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components

Triethylamine	LD50 : 420 mg/kg	Species : Rabbit.

Skin corrosion/irritation : Skin irritation.

Serious eye damage/eye irritation : Mild eye irritation.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

Reproductive toxicity : No data is available on the product itself.

Germ cell mutagenicity : No data is available on the product itself.

Specific target organ systemic toxicity (single exposure) : No data available.

Specific target organ systemic toxicity (repeated exposure) : No data available.

Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.Asthma., Skin disorders and Allergies.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	:	For small quantities (less than 100 gallons): Disposal to municipal or industrial waste water treatment plants is normally acceptable. Obtain approval from these Authorities before disposal. The product does impart a while, milky color to water, which may not be removed or sufficiently diluted by the treatment facility. The product may also cause foaming when agitated. The product can be chemically or biologically degraded. For large quantities: Disposal through licensed waste disposal facilities is suggested. The product can be incinerated, although chemical or biological treatment is sufficient. Chemical precipitation/coagulation can be used to facilitate removal of solids (consult manufacturer for detailed procedure). NOTE: As supplied or diluted, product material (foam included), when splashed on automobiles or other personal property, is difficult to remove if allowed to dry. Contact supplier if guidance is required.
Contaminated packaging	:	Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

TDG

Not dangerous goods

Further Information

Not dangerous goods The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
No SARA Hazards

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level
Triethylamine

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16. OTHER INFORMATION

HMIS Rating

Health : 1
Flammability : 1
Physical hazard : 0

REVISION NOTES : 7. HANDLING AND STORAGE
Handling
13. DISPOSAL CONSIDERATIONS

Prepared by : Evonik, Product Regulatory Department

Telephone : 973-929-8060 Corporate
1-800-345-3148 Chemicals Cust Serv
1-800-752-1597 Gases/Electronics Cust Serv

Preparation Date : 01/21/2017

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